MODULES (M)		Module Tasks & Representative Subtasks	Percent of All Tasks
MODULE 1:		**Clark County Codes, Technician/Inspector duties & responsibilities, project documentation and communication, safety on grading projects, Agency's QSM Procedures (**including relevant International Building Code provisions when adopted**)**	**12%**
TASK M 1.1	-	2000 International Building Code (IBC)	
Subtasks:	1	Chapter 17, Section 1704.6 Soils	
	2	Chapter 17, Section 1803 (1803.1, 1803.2, 1803.3, 1803.4) Excavation, Grading and Fill	
TASK M 1.2	-	2003 Southern Nevada Amendments to the 2000 International Building Code (SNA-IBC)	
Subtasks:	1	1802.6 Reports	
	2	1803.4 Compacted Fill material	
	3	Appendix K, Section 1.2 Definitions	
	4	Appendix K, Section 1.5 Inspections	
	5	Appendix K, Section 1.6 Excavations	
	6	Appendix K, Section 1.7 Fills	
	7	Appendix K, Section 1.8 Setbacks	
	8	Appendix K, Section 1.9 Drainage and Terracing	
TASK M 1.3	-	2004 Building Administrative Code of Clark County (BAC)	
Subtasks:	1	22.02.520 Approved Special Inspector	
Subtasks:	1	22.02.525 Duties and Responsibilities of the Quality Assurance Agency and Special Inspector	
TASK M 1.4	-	Technical Guidelines (TG)	
	1	TG-20 (Current Release): Special Inspector Responsibilities	
TASK M 1.5	-	Quality Systems Manual (QSM)	
Subtasks:	1	Project documentation & communication	
	2	Safety on the job	
TASK M 1.6	-	General	
Subtasks:	1	Units of measurement, conversions and basic arithmatic	

MODULES (M)		Module Tasks & Representative Subtasks	Percent of All Tasks
MODULE 2:		**Typical Laboratory tests of soils**	**20%**
TASK M 2.1	-	Moisture-Density Relation of soils (ASTM D 1557)	
Subtasks:	1	Understand the test	
	2	Perform the test	
	3	Understand factors that may affect test results	
	4	Understand corrections to OMC and MDD for the presence of oversize rocks	
TASK M 2.2	-	Family of Curves: One-point method (AASHTO T272)	
Subtasks:	1	Understand the test	
	2	Perform the test	
	3	Understand factors that may affect test results	
TASK M 2.3	-	Gradation (ASTM D422, ASTM C136, ASTM C117)	
Subtasks:	1	Understand the test	
	2	Perform the test	
	3	Understand factors that may affect test results	
TASK M 2.4	-	Atterberg Limits (ASTM 4318)	
Subtasks:	1	Understand the test	
	2	Perform the test	
	3	Understand factors that may affect test results	
TASK M 2.5	-	USCS Classification System (ASTM ASTM D 2487)	
Subtasks:	1	Understand the test	
	2	Perform the test	
	3	Understand factors that may affect test results	
TASK M 2.6	-	Visual Identification of soils (ASTM D 2488)	
Subtasks:	1	Understand the test	
	2	Perform the test	
	3	Understand factors that may affect test results	
MODULE 3:		**Advanced Laboratory Tests of Soils**	**1%**
TASK M 3.1	-	Expansion Potential (ASTM D 3877) & Swell Test (SNBCA 1803.2)	
Subtasks:	1	Understand the test	

MODULES (M)		Module Tasks & Representative Subtasks	Percent of All Tasks
MODULE 4:		**In-place field density testing using the Nuclear Gauge and Sandcone methods**	**15%**
TASK M 4.1	-	Sandcone Method (ASTM D 1556)	
Subtasks:	1	Equipment	
	2	materials	
	3	Calibration & maintenance	
	4	Testing procedure	
	5	Factors that may affect test results	
	6	Calculations	
	7	Documentation	
TASK M 4.2	-	Nuclear Gauge	
Subtasks:	1	Equipment	
	2	Calibration, standardization and maintenance	
	3	Testing procedure	
	4	Factors that may affect test results	
	5	Calculations	
	6	Documentation	
MODULE 5:		**Grading plans & construction staking**	**23%**
TASK M 5.1	-	Grading Plans	
Subtasks:	1	Identification of natural, existing, and design contours	
	2	Identification of Cut/fill line	
	3	Identification of cut/fill transition	
	4	Identification of cut areas	
	5	Identification of fill areas	
	6	Identification of extent of grading within the Permit Area	
	7	Understand grading plan details	
	8	Understand topography depicted on grading plans	
	9	Identification of project occurrences on grading plans (such as overexcavation limits, stockpiles, etc.)	
TASK M 5.2	-	Construction Staking	
Subtasks:	1	Understand the use of construction or surveys stakes	
	2	Identify various markings used on construction or survey stakes	

MODULES (M)		Module Tasks & Representative Subtasks	Percent of All Tasks
MODULE 6:		**Earthwork construction equipment**	**4%**
TASK M 6.1	-	Hauling Equipment	
Subtasks:	1	Types & uses	
TASK M 6.2	-	Processing Equipment	
Subtasks:	1	Types & uses	
TASK M 6.3	-	Support Equipment	
Subtasks:	1	Types & uses	
TASK M 6.4	-	Compaction Equipment	
Subtasks:	1	Types & uses	
MODULE 7:		**Basics of grading operations of low-risk projects, i.e., grading projects with no adverse soil conditions**	**25%**
TASK M 7.1	-	**Implementation of Laboratory test results during grading operations**	
Subtasks:	1	Implementation of sieve analysis tests	
	2	Implementation of MDD-OMC test	
TASK M 7.2	-	**Geotechnical Reports**	
Subtasks:	1	Understand boring logs	
	2	understand site geology	
	3	Understand project soils conditions	
	4	Understand the geotechnical report's earthwork construction recommendations (overexcavation, fill material, compaction, etc.)	
TASK M 7.3	-	**Shallow Foundations**	
Subtasks:	1	Identify foundation details	
	2	foundation inspection	
TASK M 7.4	-	**Earthwork Construction**	
Subtasks:	1	Be familiar with general soil conditions in the Las Vegas Valley and the standard practice dealing with typical soil conditions	
	2	Identify competent soil for cleanouts or overexcavation	
	3	Identify competent soil or bedrock for cleanouts, or overexcavation	
			Total AEC II 100%
		Number of Tasks is	
		25	